Test Report
Aggregate Gradation

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. Sagar.S
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	bay
Material	Coarse Aggregates
Sample No	1
Date	25-Mar-2019

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	75	0	0	0	100	100	Gradation satisfies the MORT&H Specification for GSB
2	53	401	10.03	10.03	89.97	80-100	
3	26.5	706	17.65	27.68	72.32	55-90	
4	9.5	899	22.48	50.16	49.84	35-65	
5	4.75	395	9.88	60.04	39.96	25-55	
6	2.36	401	10.03	70.07	29.93	20-40	
7	0.425	703	17.58	87.65	12.35	10-15	
8	0.075	399	9.98	97.63	2.37	<5	

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Note:

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AE-02

Test Report
Liquid and Plastic Limit by Cone Apparatus

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. Sagar.S
Test Method	Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Coarse Aggregates
Sample No	1
Date	25-Mar-2019

Sl No	Description	Unit	Liquid Limit	Plastic Limit
	Penetration	mm		
1	Container No	no		
2	Weight of container,(A)	gm		
3	Weight of container + wet soil, (B)	gm		
4	Weight of container + dry soil, (C)	gm	**Non Plastic**	**Non Plastic**
5	Weight of water, D=(B - C)	gm		
6	Weight of dry soil, E=(C - A)	gm		
7	Water Content, D/E x 100 (%)	gm		

Comments: <6 so Non Plastic

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. Sagar.S
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	Bay
Material	Granular sub Base
Sample No	1
Date	25-Mar-2019

Test Hole No	**1**
MDD	2.24
OMC in %	3.2
Bulk Density Ys	1.392
Weight of Sand In cone W1 (gm)	1195
Weight Of Wet soil From Hole (W2)	4335
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000
Wt Of Sand +Cylinder After Pouring (W4) gm	13172
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2633
Volume of Hole: V= W5/ Ys	1891.52
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.65
Moisture Content : w (From Graph In %)	3.32
Dry Density Yd = Yb/(1+W/100)	2.22
Field Compaction(%)	99.03

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Test Report
Kerb stone

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri. Sagar.S
Location	Bay
Material	Kerb stone
Sample No	1
Date	30-Apr-2019

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	489	16.80	16.67	
2	485	16.70		
3	484	16.50		

Results: Compressive strength of kerb stone is 16.67 N/mm2

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Test Report
Interlock pavers

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Contractor	Sri. Sagar.S
Location	Bay
Material	Interlock pavers
Sample No	1
Date	22-Apr-2019

SL.NO	DETAILS	FLEXURAL STRENGTH fcr in mpa	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm
1	Paver Block	4.00	35.6	35.70
2	Paver Block	3.95	35.8	
3	Paver Block	3.90	35.7	

Results: s Compressive strength of Interlock pavers is 35.70 N/mm2

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Test Report
Consistency test

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri. Sagar.S
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	3-Apr-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	28	28.5	29	30.4	31
3	Weight of Water (gm)	112	114	116	121.6	124
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	18.1	17	12	6.2	5.5

Results: Standard Consistency of Cement: 31.00%

Note:

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AE-2

Test Report
Fineness test

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri. Sagar.S
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Date	3-Apr-2019

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	4.8	4.5
3	Percentage retained (%)	4.8	4.5
4	Average Percentage retained (%)	4.65	

Results: Residue of cement is: 4.65%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

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Test Report
Soundness test

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri. Sagar.S
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	3-Apr-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	16	18	17
3	Difference or expansion	5	8	6
4	Average Differences or Expansion in mm	6.33		

Results: Difference in Expansion of Cement: 6.33mm
Comments: Maximum allowable Expansion of cement is 10mm.

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Test Report
Gradation test

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri. Sagar.S
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Date	3-Apr-2019

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification
2	4.75 mm	15	7.50	7.50	92.50	90-100	
3	2.36 mm	19	9.50	17.00	83.00	75-100	
4	1.18 mm	20	10.00	27.00	73.00	55-90	
5	600 µ	40	20.00	47.00	53.00	35-59	
6	300 µ	57	28.50	75.50	24.50	8-30	
7	150 µ	38	19.00	94.50	5.50	0-10	

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Test Report
Water absorption test

Project Name	Providing Community property maintenance in ward no.02 of yelahanka Sub division
Client	Executive Engineer, Kengeri Division
Job No	TFU/BBMP/EE/YNK/PMC/W-2/2018-19/QR
Mix Type	Plain cement concrete(1:4:8)
Contractor	Sri. Sagar.S
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	3-Apr-2019

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2035	2040	
3	Weight of Saturated Aggregate in water	W_sg = W_2- W_1	1274	1277	
4	dry aggregate in Air	W_3 g	2070	2065	
5	Volume of the Aggregate	W_3- W_s	796	788	
6	Aggregate	W_4g	2031	2036	
7	Specific Gravity	W_4/(W_3- W_s)	2.55	2.58	2.57
8	Apparent Specific Gravity	W_4/(W_4- W_s)	2.68	2.68	2.68
9	Water Absorption	(W_4- W_3)*100/ W_4	1.92	1.42	1.67

Comments: Maximum allowable Aggregate Water Absorption value for PCC is 2.0%.

Note:

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For Team For You

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AE-02

No:TFU/BBMP/EE/YNK/ PMC/18-19/ W-2

Date:

To,
The Executive Engineer,
Yelahanka Division,
BBMP, Bangalore-560056.

From,

Team For You,
#102, 1st Main, 3rd Cross,
Kottigepalya, Magadi Main Road.
Bangalore-560091

PMC CERTIFICATE

Sub: Certifying the 1st & Final Bill for the work of **'Providing Community property maintenance in ward no.02 of yelahanka Sub division.'**

With respect to above the subject, this is bring to your kind information that we have scrutinized the 1st & Final Bill submitted by **Sri. SAGAR.S**, Contractor, Bangalore towards the above work and arrived at an amount of Rs. 12,51,687.00 (Rupees Twelve Lakh(s) Fifty One Thousand Six Hundred Eighty Seven Only). The work has been completed satisfactorily.

AE-1

Thanking you

AE-02

Yours Faithfully
For Team For You.

TEAM FOR YOU

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